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NOTICE OF ALLOWANCE AND FEE(S) DUE

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10/01/2009

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER
OTTO, ALAN
ART UNIT PAPER NUMBER

2187

DATE MAILED: 10/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,375	04/06/2005	Carlos Antonio Alba Pinto	NL 020979	4877

TITLE OF INVENTION: DATA PROCESSING APPARATUS WITH PARALLEL OPERATING FUNCTIONAL UNITS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 24737 7590 10/01/2009 Certificate of Mailing or Transmission PHILIPS INTELLECTUAL PROPERTY & STANDARDS I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/530,375 04/06/2005 Carlos Antonio Alba Pinto NL 020979 4877 TITLE OF INVENTION: DATA PROCESSING APPARATUS WITH PARALLEL OPERATING FUNCTIONAL UNITS APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 01/04/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS OTTO, ALAN 2187 711-202000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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			ART UNIT	PAPER NUMBER	
BRIARCLIFF MANOR, NY 10510		2187			
			DATE MAILED: 10/01/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 301 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 301 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/530,375	ALBA PINTO ET AL.
Notice of Allowability	Examiner	Art Unit
	ALAN M. OTTO	2187
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to the amendment filed 2. The allowed claim(s) is/are 1-13 and 17-19, renumbered 1-	(OR REMAINS) CLOSED in this a or other appropriate communication is subject and MPEP 1308. 7/10/2009.	opplication. If not included on will be mailed in due course. THIS
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the composition of the proper No./Mail Date DEPOSIT OF and/or INFORMATION about the deposition of the proper No./Mail Pate	e been received. been received in Application No. cuments have been received in this of this communication to file a replace. IENT of this application. itted. Note the attached EXAMINE as reason(s) why the oath or declars to be submitted. son's Patent Drawing Review (PTC). S Amendment / Comment or in the case of BIOLOGICAL MATERIAL	s national stage application from the ly complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. O-948) attached Office action of vings in the front (not the back) of 1(d). must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material /Alan M Otto/ Examiner, Art Unit 2187	5. ☐ Notice of Informal 6. ☐ Interview Summal Paper No./Mail D 7. ☑ Examiner's Amen 8. ☑ Examiner's Stater 9. ☐ Other	ry (PTO-413), late

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Detailed Action

The instant application having Application No. 10/530,375 has a total of 16 claims pending in the application, there are 2 independent claim and 14 dependent claims, all of which are ready for examination by the examiner. Claims 15-16 and 20 were cancelled by the amendment dated 4/9/2009. Claim 14 was cancelled by the examiner's amendment below.

EXAMINER'S AMENDMENT

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment provided below was given in a telephone interview with Dicran Halajian on 9/21/2009.

The claims read as follows:

1. (Currently Amended) A data processing apparatus, the apparatus comprising: an instruction addressing unit; an instruction memory system arranged to output an instruction word, capable of containing a plurality of instructions, in response to an instruction address from the instruction addressing unit, the instruction memory system comprising a plurality of memory units, arranged to output respective parts of the instruction word in parallel; an instruction execution unit, comprising a plurality of

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functional units, each capable of executing a respective instruction from the instruction word in parallel with execution of other instructions from the instruction word by other ones of the functional units; an instruction address modification circuit arranged to modify translation of the instruction address into a physical address for a particular one of the memory units relative to other ones of the memory units and to change generation of instruction words from instructions from different memory units during execution of a program, the instruction address modification circuit being configured to modify an address translation between supplying a first instruction address for a first instruction word and supplying a second instruction address for a second instruction word, the second instruction word being different from the first instruction word and including a copy of a part of the first instruction word, so that the part of the first instruction word is re-used in the second instruction word thereby reducing memory needed to store the program, wherein the instruction address modification circuit includes an offset register which is directly connected to an output of a functional unit of the plurality of functional units, the functional unit updating an offset value in the offset register during the execution of the program, and wherein the instruction address modification circuit is operationally coupled to a controller that provides the instruction address, and to one of the plurality of the functional units that provides an adjust signal to the instruction address modification circuit, and wherein the controller is distinct from the functional unit; the instruction address modification circuit being configured to modify the translation in response to the adjust signal and to provide a modified translated address to one of the plurality of the memory units.

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11. (Currently Amended) A method of executing a program of instruction words with a data processing apparatus that comprises a plurality of functional units capable of executing that execute a plurality of instructions from each instruction word in parallel, wherein the instructions from each of at least some of the instruction words are fetched from respective memory units in parallel, the method comprising the acts of: addressing the instruction word with an instruction address that is common for the functional units, using a modifiable translation of the instruction address into a physical address for a particular one of the memory units to select dependent on program execution which instructions from the memory units will be combined into the instruction word in response to the instruction address; modifying an address translation between supplying a first instruction address for a first instruction word and supplying a second instruction address for a second instruction word, the second instruction word being different from the first instruction word and including a copy of a part of the first instruction word, so that a part of the first instruction word is re-used in the second instruction word thereby reducing memory needed to store the program; and connecting an output of an offset register to an offset adder, the offset adder being connected between a controller that provides the instruction address and the particular one of the memory units; wherein the modifying act includes updating, by a functional unit of the plurality of functional units, an offset value in the offset register during the execution of the program, the offset register being directly connected to an output of the functional unit, and the controller being distinct from the functional unit.

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14. (Cancelled)

Reasons for Allowance

3. The reasons for allowance can be found below:

The following is an examiner's statement of reasons for allowance:

4. Claim 1 recites the limitation of "where the instruction address modification circuit

includes an offset register which is directly connected to an output of a functional unit of

the plurality of functional units, the functional unit updating an offset value in the offset

register during the execution of the program ... and wherein the controller is distinct from

the functional unit." This limitation is taught in the specification, page 4, lines 13-28 and

shown in fig. 1. This limitation in combination with other recited limitations of claim 1 is

not taught or suggested by the prior art of record. Claim 11 recites a similar limitation.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

CLOSING COMMENTS

Conclusion

a. STATUS OF CLAIMS IN THE APPLICATION

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5. The following is a summary of the treatment and status of all claims in the application as recommended by **M.P.E.P. 707.07(i)**:

a(1) SUBJECT MATTER NO LONGER IN THE APPLICATION

6. Claims 15-16 and 20 were cancelled by the amendment dated 4/9/2009. Claim 14 was cancelled by the examiner's amendment above.

a(2) SUBJECT MATTER CONSIDERED ALLOWABLE

7. Per the instant office action, claims 1-13 and 17-19 are allowed and renumbered claims 1-16.

b. <u>DIRECTION OF FUTURE CORRESPONDENCES</u>

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALAN M. OTTO whose telephone number is 571-270-1626. The examiner can normally be reached on 8:00-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christian Chace can be reached on 571-272-4190. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christian P. Chace/ Supervisory Patent Examiner, Art Unit 2187 /Alan M Otto/ Examiner, Art Unit 2187